Event

MPTS IJET
FAM 4490
T-45

Mission

FAMILIARIZATION SAFE-FOR SOLO CHECK FLIGHT

1.3 HOURS/X

ORM

FAM 4490

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

FAM 4490

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

FAM 4490

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **FAM 4203**
  - **FAM 4304**
  - **FAM 2201**
  - **OCF 4101**
  - **NA 1103**

- **DISCUSS ITEMS:**

  FAM 4490
  - **NATOPS/SOP/EP QOD, AND AIRCRAFT SYSTEMS**

SYLLABUS NOTES

FAM 4490

A. JACKET REVIEW REQUIRED

B. EVENT SHALL BE FLOWN FROM THE FRONT COCKPIT WITH VISUAL REFERENCE TO THE GROUND.

C. THE STUDENT SHALL, AT A MINIMUM, FLY THE FOLLOWING MANEUVERS IN THE STALL SERIES: BREAK TURN STALL, LANDING ATTITUDE STALL, AND APPROACH TURN STALL.

D. STUDENT MUST HAVE A MINIMUM OF 60 FCLP-TYPE LANDINGS PRIOR TO FAM 4490. IF THIS REQUIREMENT IS NOT MET, WARMUP FAM 4386 SHALL BE AWARDED AS NECESSARY. **STUDENTS, KEEP TRACK OF YOUR LANDING COUNT. ADVISE YOUR IP OF YOUR TOTAL LANDINGS TO DATE**

ADMIN (CARD)

FAM 4490

- **A/C – ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

FAM 4490

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **SWAPPING OF CONTROLS**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

FAM 4490

- **TIMS RESUME REVIEW**
- **PRACTICE:**
  - CHECKLISTS/COMM/GROUND OPS
  - TAKEOFF/DEPARTURE/FLIGHT ADMIN
  - DEPARTURE PROCEDURE
  - COURSE RULES
  - STALL SERIES
  - VERTICAL RECOVERY
  - MIN RADIUS TURN
  - AEROBATICS
  - SQUIRREL CAGE
  - UNUSUAL ATTITUDE RECOVERY
  - DESCENT/FIELD ENTRY
  - PRECAUTIONARY APPROACH(ES)
  - VFR LANDING PATTERN
  - FIELD CARRIER LANDING
  - NF TOUCH-AND-GO
  - FF ROLL-AND-GO
  - CROSSWIND LANDINGS
  - WAVEOFF
  - FULL STOP LANDING

DID YOU KNOW?

• A SINGLE FULLY CHARGED BATTERY SHOULD SUPPLY 28 VDC ESSENTIAL SERVICES BUS LOADS FOR APPROXIMATELY 12 MINUTES, WHILE BOTH BATTERIES SHOULD SUPPLY THE LOADS FOR APPROXIMATELY 27 MINUTES.

• THE CAUG SYSTEM PERFORMS FOUR FUNCTIONS: YAW DAMPING, TURN COORDINATION, SPEED BRAKE-TO-STABILATOR INTERCONNECT (SBI), AND RUDDER TRIM.

• A PRIORITY VALVE, SET TO 2,200 PSI ENSURES THE INTEGRITY OF THE WHEEL BRAKE SYSTEM IF THE HYD 1 SYSTEM FAILURE IS DUE TO A LEAK IN THE FLAP CIRCUIT.

CONDUCT

FAM 4490

- **RECOMMENDED FLOW**

FAM 4490:

A. AREA WORK

1) SNA PERFORMS THE FOLLOWING MANEUVERS:

- **VERTICAL RECOVERY**
- **MIN RADIUS TURN**
- **STALL SERIES**
- **AEROBATICS**
- **SQUIRREL CAGE**
- **UA RECOVERIES**

B. PATTERN (USE NJW, IF POSSIBLE)

1) SNA RECOVERS TO NJW VIA PA

2) SNA FLIES LANDING PATTERN, INCLUDING:

- **NF TOUCH AND GO**
- **FF ROLL AND GO**
- **ABEAM PA**

3) SNA FLIES PATTERN UNTIL 900 LBS, THEN RTB TO NMM VIA OVERHEAD

4) SNA FLIES PATTERN AT NMM UNTIL 400-500 LBS

BLOCK MIF

FAM 4490

CTS REF	MANEUVER	FAM4490
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
10	Takeoff	4+
11	Departure Procedure	4+
8	Course Rules	4+
29	Stall Series	4+
26	Vertical Recovery	4+
26	Min Radius Turn	3+
27	Aerobatics	3+
27	Squirrel Cage	3+
28	Unusual Attitude Recovery	4+
13	Descent/Field Entry	4+
21	Precautionary Approach(es)	3+
22	VFR Landing Pattern	3+
23	Field Carrier Landing	3+
23	NF Touch-and-Go	3+
23	FF Roll-and-Go	3+
23	Crosswind Landings	3
24	Waveoff	3+
23	Full-Stop Landing	4+

Emergencies

FAM 4490

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**

STANDARD DEBRIEFING FORMAT

FAM 4490

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED